

=> cardioprotective
3769 CARDIOPROTECTIVE
1 CARDIOPROTECTIVES
L4 3770 CARDIOPROTECTIVE
(CARDIOPROTECTIVE OR CARDIOPROTECTIVES)

=> ischemia or reperfusion
108924 ISCHEMIA
100 ISCHEMIAS
108967 ISCHEMIA
(ISCHEMIA OR ISCHEMIAS)
34404 REPERFUSION
57 REPERFUSIONS
34420 REPERFUSION
(REPERFUSION OR REPERFUSIONS)
L5 119920 ISCHEMIA OR REPERFUSION

=> 11 and 12 and 13
L6 0 L1 AND L2 AND L3

=> 11 and 12
L7 1 L1 AND L2

=> 13 and 11
L8 3 L3 AND L1

=> 11 and 12 and 14
L9 0 L1 AND L2 AND L4

=> 11 and 12 and 15
L10 0 L1 AND L2 AND L5

=> file caplus	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	4.20	4.41

FILE 'CAPLUS' ENTERED AT 15:14:27 ON 11 AUG 2003
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C0030810/ED)

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> 11 and 12 and 13
5206 TRIAD
1807 TRIADS
6422 TRIAD
(TRIAD OR TRIADS)
167536 VITAMIN
44963 VITAMINS
184735 VITAMIN
(VITAMIN OR VITAMINS)
1706260 E
26149 VITAMIN E
(VITAMIN(W)E)
5420 CERULOPLASMIN
76 CERULOPLASMIN
5432 CERULOPLASMIN
(CERULOPLASMIN OR CERULOPLASMIN)
L11 0 L1 AND L2 AND L3

=> log y	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	7.72	12.13

STN INTERNATIONAL LOGOFF AT 15:15:43 ON 11 AUG 2003

Connecting via Winsock to STN

accurate
substance identification.

=> triad

5730 TRIAD
967 TRIADS
L1 6501 TRIAD
(TRIAD OR TRIADS)

=> ceruloplasmin

5439 CERULOPLASMIN
25 CERULOPLASMINS
L2 5439 CERULOPLASMIN
(CERULOPLASMIN OR CERULOPLASMINS)

=> cardioprotective

L3 2 CARDIPROTECTIVE

=> cardioprotective

L4 3112 CARDIOPROTECTIVE

=> l1 and l2 and l4

L5 0 L1 AND L2 AND L4

=> pyruvate

23540 PYRUVATE
14469 PYRUVATES
L6 32250 PYRUVATE
(PYRUVATE OR PYRUVATES)

=> vitamin with e

105827 VITAMIN
18594 VITAMINS
115961 VITAMIN
(VITAMIN OR VITAMINS)
578465 E
L7 21513 VITAMIN WITH E
(VITAMIN(1W)E)

=> fatty acids or lipid

127087 FATTY
11 FATTIES
127089 FATTY
(FATTY OR FATTIES)
448657 ACIDS
94291 FATTY ACIDS
(FATTY(W)ACIDS)
152684 LIPID
123682 LIPIDS
221387 LIPID
(LIPID OR LIPIDS)
L8 282224 FATTY ACIDS OR LIPID

=> l4 and l3 and l6 and l7 and l8

L9 0 L4 AND L3 AND L6 AND L7 AND L8

=> l4 and l2

L10 6 L4 AND L2

=> d ti 1-6

L10 ANSWER 1 OF 6 MEDLINE on STN
TI Experimental myocardial necrosis in rats: role of arjunolic acid on
platelet aggregation, coagulation and antioxidant status.

L10 ANSWER 2 OF 6 MEDLINE on STN
TI Deglycosylated ***ceruloplasmin*** maintains its enzymatic,
antioxidant, ***cardioprotective***, and neuronoprotective properties.

L10 ANSWER 3 OF 6 MEDLINE on STN

TI [Use of antioxidants and trimetazidine in preparation of patients with
 ischemic heart disease for coronary angiography].
 Ispol'zovanie antioksidantov i trimetazidina pri podgotovke bol'nykh
 ishemicheskoi bolezni u serdtsa k koronaroangiografii.

L10 ANSWER 4 OF 6 MEDLINE on STN
 TI Comparative antioxidant and ***cardioprotective*** effects of
 ceruloplasmin, superoxide dismutase and albumin.

L10 ANSWER 5 OF 6 MEDLINE on STN
 TI Protection of myocardial tissue against deleterious effects of oxygen free
 radicals by ***ceruloplasmin***.

L10 ANSWER 6 OF 6 MEDLINE on STN
 TI The removal of metal ions from transferrin, ferritin and
 ceruloplasmin by the ***cardioprotective*** agent ICRF-187.
 [(+)-1,2-bis(3,5-dioxopiperazinyl-1-yl)propane] and its hydrolysis product
 ADR-925.

=> triad

L1 17888 TRIAD

=> cardioprotective()composition

L2 10 CARDIOPROTECTIVE(W) COMPOSITION

=> cardioprotective

L3 11539 CARDIOPROTECTIVE

=> ceruloplasmin

L4 15695 CERULOPLASMIN

=> l4 and l1

L5 14 L4 AND L1

=> remove duplicate

DUPLICATE IS NOT VALID HERE

The DELETE command is used to remove various items stored by the
 system.

=> cardioprotective()composition

L7 10 CARDIOPROTECTIVE(W) COMPOSITION

=> d ab 1-10

=> pyruvate

L9 114455 PYRUVATE

=> antioxidants

L10 117646 ANTIOXIDANTS

=> lipids

L11 391991 LIPIDS

=> ceruloplasmin

L12 15695 CERULOPLASMIN

=> l9 and l10 and l11 and l12

L13 3 L9 AND L10 AND L11 AND L12

=> d all 1-3

=> file caplus biosis medline

COST IN U.S. DOLLARS

SINCE FILE

ENTRY

TOTAL

FULL ESTIMATED COST

0.21

0.21

FILE 'CAPLUS' ENTERED AT 14:37:36 ON 13 AUG 2003

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FILE 'BIOSIS' ENTERED AT 14:37:36 ON 13 AUG 2003
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FILE 'MEDLINE' ENTERED AT 14:37:36 ON 13 AUG 2003

=> pyruvate

L1 114455 PYRUVATE

=> vitamin e

L2 68036 VITAMIN E

=> fatty()acids

L3 405935 FATTY(W) ACIDS

=> l1 and l2 and l3

L4 60 L1 AND L2 AND L3

=> l4 and composition

L5 39 L4 AND COMPOSITION

=> d ti 1-20

L5 ANSWER 1 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

TI Ceruloplasmin and an antioxidant ***composition*** comprising the same
and their uses as neuroprotective agent

L5 ANSWER 2 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

TI Cardioprotective ***composition*** comprising ceruloplasmin and uses
thereof

L5 ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

TI Cardioprotective ***composition*** and uses thereof

L5 ANSWER 4 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

TI ***pyruvate***, antioxidants, and lipids in neuroprotective
compositions

L5 ANSWER 5 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

TI Bioadhesive antibacterial wound healing ***composition***

L5 ANSWER 6 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

TI Therapeutic permeation enhanced-wound healing ***compositions***
containing antioxidant and lactate and ***fatty*** ***acids***

L5

=> S (E3) AND 1994<=PY<=1996

1144 "MARTIN A"/AU

1244504 1994<=PY<=1996

L2 148 ("MARTIN A"/AU) AND 1994<=PY<=1996

=> l2 and pyruvate

23546 PYRUVATE

14469 PYRUVATES

32256 PYRUVATE

(PYRUVATE OR PYRUVATES)

L3 2 L2 AND PYRUVATE

=> d ti 1,2

L3 ANSWER 1 OF 2 MEDLINE on STN

TI The use of antioxidants in healing.

L3 ANSWER 2 OF 2 MEDLINE on STN

TI Reversal of doxorubicin-impaired wound healing using triad compound.

=> d all 1,2

L

=> treatment
1239462 TREATMENT
148854 TREATMENTS
L1 1316519 TREATMENT
(TREATMENT OR TREATMENTS)

=> heart()oxidative()stress
452009 HEART
30105 HEARTS
462202 HEART
(HEART OR HEARTS)
79909 OXIDATIVE
11 OXIDATIVES
79912 OXIDATIVE
(OXIDATIVE OR OXIDATIVES)
222358 STRESS
13619 STRESSES
228790 STRESS
(STRESS OR STRESSES)
L2 6 HEART(W)OXIDATIVE(W)STRESS

=> antioxidative
L3 4372 ANTIOXIDATIVE

=> 12 and 13
L4 0 L2 AND L3

=> 11 and 13
L5 733 L1 AND L3

=> d ti 1-20

L5 ANSWER 1 OF 733 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
TI The effects of estrogen and raloxifene ***treatment*** on antioxidant
enzymes in brain and liver of ovariectomized female rats.

L5 ANSWER 2 OF 733 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
TI Four barley genotypes respond differently to cadmium: Lipid peroxidation
and activities of antioxidant capacity.

L5 ANSWER 3 OF 733 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
TI Up-regulation of the leaf mitochondrial and peroxisomal
antioxidative systems in response to salt-induced oxidative stress
in the wild salt-tolerant tomato species Lycopersicon pennellii.

L5 ANSWER 4 OF 733 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
TI Nitric oxide (NO) and an NMDA receptor antagonist in pentylenetetrazole-
induced convulsions.

L5 ANSWER 5 OF 733 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
TI ***Antioxidative*** effect of nerve growth factor (NGF) in rat
thalamus after quinolinic acid-induced neurotoxicity.

L5 ANSWER 6 OF 733 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
TI Pyrrolidine dithiocarbamate provides protection against hypothermic
preservation and transplantation injury in the rat liver: The role of heme
oxygenase-1.

L5 ANSWER 7 OF 733 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
TI Cadmium tolerance and ***antioxidative*** defenses in hairy roots of
the cadmium hyperaccumulator, Thlaspi caerulescens.

L5 ANSWER 8 OF 733 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
TI Inhibition of glycyrrhizic acid on aflatoxin B1-induced cytotoxicity in
hepatoma cells.

L5 ANSWER 9 OF 733 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
TI Effects of melatonin on oxidative- ***antioxidative*** status of
tissues in streptozotocin-induced diabetic rats.

L5 ANSWER 10 OF 733 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
TI Hepatoprotective and free radical scavenging effects of Nelumbo nucifera.

L5 ANSWER 11 OF 733 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
TI Zinc alleviates cadmium-induced oxidative stress in *Ceratophyllum demersum*
L.: A free floating freshwater macrophyte.

L5 ANSWER 12 OF 733 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
TI Effects of amifostine on liver oxidative stress caused by cyclophosphamide
administration to rats.

L5 ANSWER 13 OF 733 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
TI ***Antioxidative*** properties of brown algae polyphenolics and their
perspectives as chemopreventive agents against vascular risk factors.

L5 ANSWER 14 OF 733 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
TI Phenols and ***antioxidative*** status of *Raphanus sativus* grown in
copper excess.

L5 ANSWER 15 OF 733 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
TI Protective effect of resveratrol on beta-amyloid-induced oxidative PC12
cell death.

L5 ANSWER 16 OF 733 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
TI Rosmarinic acid inhibits lung injury induced by diesel exhaust particles.

L5 ANSWER 17 OF 733 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
TI Docosaehaenoic acid suppresses nitric oxide production and inducible
nitric oxide synthase expression in interferon-gamma plus
lipopolysaccharide-stimulated murine macrophages by inhibiting the
oxidative stress.

L5 ANSWER 18 OF 733 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
TI ***Antioxidative*** and hepatoprotective effects of *Antrodia*
camphorata extract.

L5 ANSWER 19 OF 733 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
TI Anticonvulsant valproic acid inhibits cardiomyocyte differentiation of
embryonic stem cells by increasing intracellular levels of reactive oxygen
species.

L5 ANSWER 20 OF 733 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
TI NEOTROFIN!™ INCREASES HEME OXYGENASE - 1 EXPRESSION IN THE BRAIN.

=> file biosis

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

5.04

5.25

FILE 'BIOSIS' ENTERED AT 15:22:19 ON 31 JUL 2003
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FILE COVERS 1969 TO DATE.
CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNS) PRESENT
FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 30 July 2003 (20030730/ED)

=> heart()oxidative()stress

452009 HEART

30105 HEARTS

462202 HEART

(HEART OR HEARTS)

79909 OXIDATIVE

11 OXIDATIVES

79912 OXIDATIVE

(OXIDATIVE OR OXIDATIVES)

222358 STRESS

13619 STRESSES

228790 STRESS

(STRESS OR STRESSES)

L6 6 HEART(W)OXIDATIVE(W)STRESS

=> d ti 1-10

L6 ANSWER 1 OF 6 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
TI Effects of iNOS-related NO on hearts exposed to liposoluble iron.

L6 ANSWER 2 OF 6 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
TI Chronic garlic administration protects rat heart against oxidative stress
induced by ischemic reperfusion injury.

L6 ANSWER 3 OF 6 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
TI Cardioprotection by cyclosporine A in experimental ischemia and
reperfusion-evidence for a nitric oxide dependent mechanism mediated by
endothelin.

> di ab 5-6

205886 DI

7569 DIS

212869 DI

(DI OR DIS)

21989 AB

3051 ABS

24254 AB

(AB OR ABS)

1980371 5

1414147 6

L7 0 DI AB 5-6

(DI(W)AB(W)5(W)6)

=> heart()oxidative()stress

452009 HEART

30105 HEARTS

462202 HEART

(HEART OR HEARTS)

79909 OXIDATIVE

11 OXIDATIVES

79912 OXIDATIVE

(OXIDATIVE OR OXIDATIVES)

222358 STRESS

13619 STRESSES

228790 STRESS

(STRESS OR STRESSES)

L8 6 HEART(W)OXIDATIVE(W)STRESS

=> d ab 5-6

L8 ANSWER 5 OF 6 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN

L8 ANSWER 6 OF 6 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
AB One of the mechanisms thought to cause injury in preserved organs is the
formation of oxygen free radicals. The cell is protected from oxidative
stress by many defense mechanism. A major defenses mechanism involves
glutathione and glutathione-dependent enzymes. During organ preservation
by simple cold storage the loss of glutathione may sensitize the organ to
free radical damage after transplantation. In this study we show that
glutathione is depleted from the rabbit liver, kidney, and heart
cold-stored (5.degree.C) for up to 72 h in the UW solution without
glutathione. In the first 24 h kidney glutathione decreased to 84 +/- . 3%
of control values, liver glutathione decreased to 49 +/- . 3% of control
values, and heart glutathione decreased to 73 +/- . 3% of control values.
After 48 h of storage the kidney and liver lost an additional 30 and 20%,
respectively, whereas heart glutathione changed very little. By 72 h all
three organs had lost more than 50% of the glutathione found in freshly
obtained tissue. To determine if glutathione added to the UW solution can
effectively prevent this loss of glutathione during preservation,
hepatocytes were cold-stored for up to 72 h in a preservation solution
with and without glutathione. We found that adding glutathione to the
presevation solution slowed the rate of loss of glutathione from the
cells. These data suggest that at hypothermia the cell may be permeable to
GHS. Methods to suppress the loss of glutathione during preservation of
organs may be an important factor in suppressing oxygen free radical
injury.

=
MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the
MeSH 2003 vocabulary. See <http://www.nlm.nih.gov/mesh/changes2003.html>
for a description on changes.

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> cardioprotective
L1 3105 CARDIOPROTECTIVE

=> antioxidant
25703 ANTIOXIDANT
28967 ANTIOXIDANTS
L2 40820 ANTIOXIDANT
(ANTIOXIDANT OR ANTIOXIDANTS)

=> cerulplasmin
L3 2 CERULOPLASMIN

=> ceruloplasmin
5433 CERULOPLASMIN
25 CERULOPLASMINS
L4 5433 CERULOPLASMIN
(CERULOPLASMIN OR CERULOPLASMINS)

=> pyruvate
23511 PYRUVATE
14469 PYRUVATES
L5 32221 PYRUVATE
(PYRUVATE OR PYRUVATES)

=> l1 and l2 and l4 and l5
L6 0 L1 AND L2 AND L4 AND L5

=> l1 and l2 and l4
L7 5 L1 AND L2 AND L4

=> d ti 1-4

L7 ANSWER 1 OF 5 MEDLINE on STN
TI Experimental myocardial necrosis in rats: role of arjunolic acid on
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L7 ANSWER 2 OF 5 MEDLINE on STN
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L7 ANSWER 3 OF 5 MEDLINE on STN
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patients with ischemic heart disease for coronary angiography].
Ispol'zovanie antioksidantov i trimetazidina pri podgotovke bol'nykh
ishemicheskoi bolezni u serdtsa k koronaroangiografii.

L7 ANSWER 4 OF 5 MEDLINE on STN
TI Comparative ***antioxidant*** and ***cardioprotective*** effects
of ***ceruloplasmin***, superoxide dismutase and albumin.

RECORDS LAST ADDED: 6 August 2003 (20030806/ED)

=> Triad
4081 TRIAD
1113 TRIADS
L1 4963 TRIAD
(TRIAD OR TRIADS)

=> vitamin e
106218 VITAMIN
15154 VITAMINS
114263 VITAMIN
(VITAMIN OR VITAMINS)
594356 E
L2 20538 VITAMIN E
(VITAMIN(W)E)

=> ceruloplasmin
4813 CERULOPLASMIN
26 CERULOPLASMINS
L3 4820 CERULOPLASMIN
(CERULOPLASMIN OR CERULOPLASMINS)